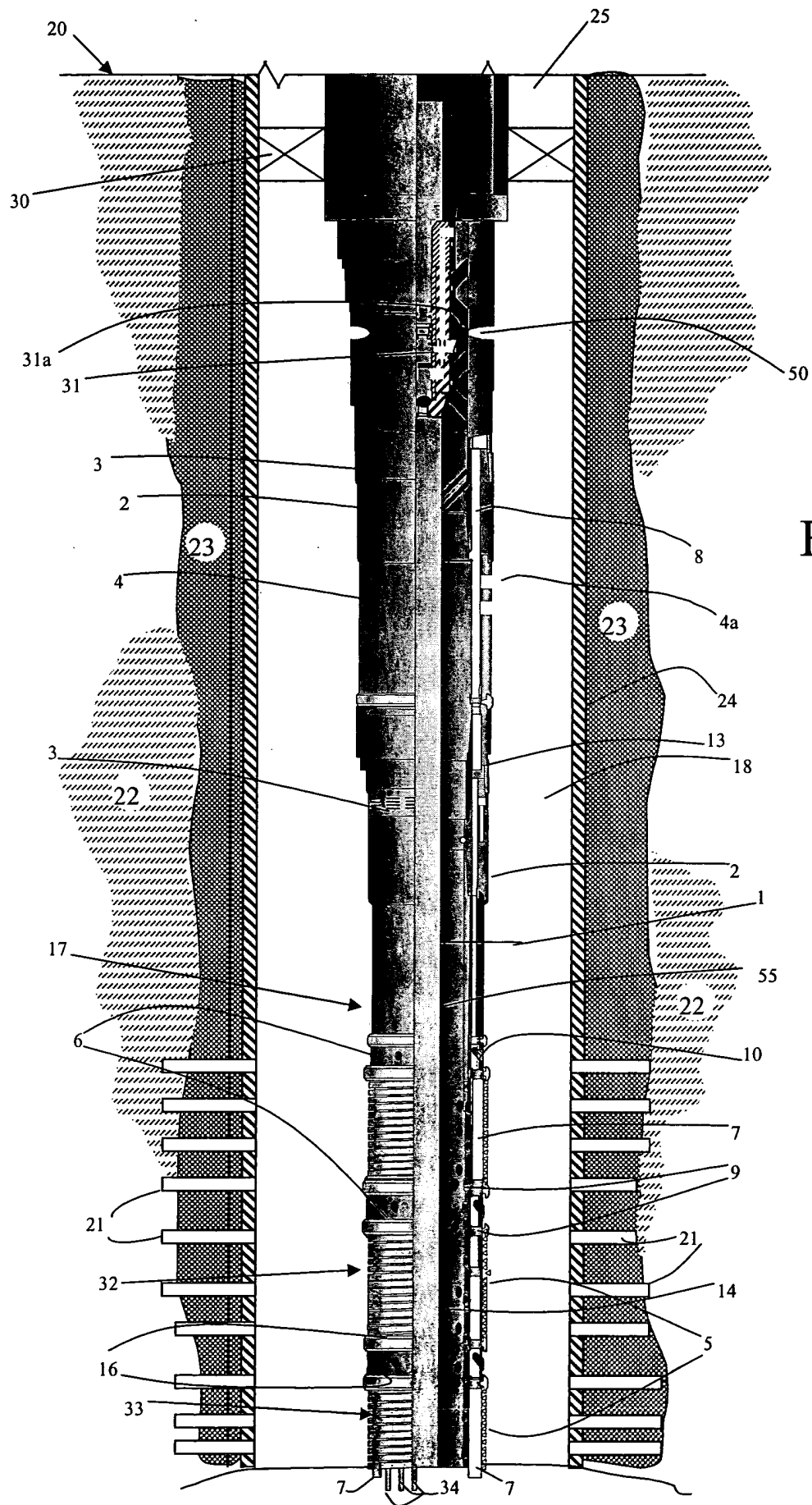


Fig. 1



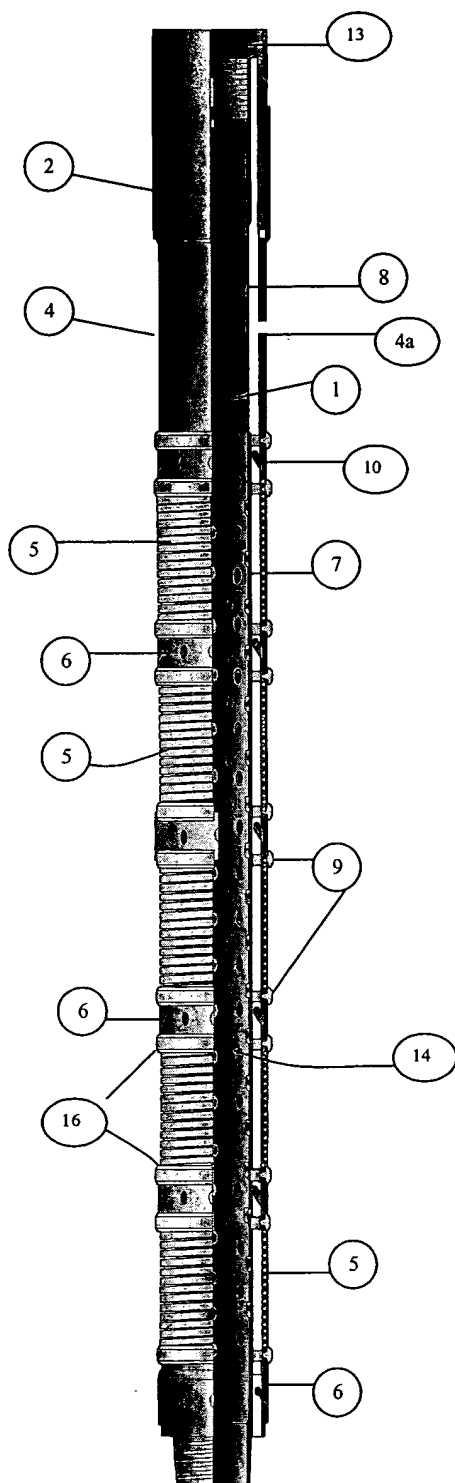


Fig. 2

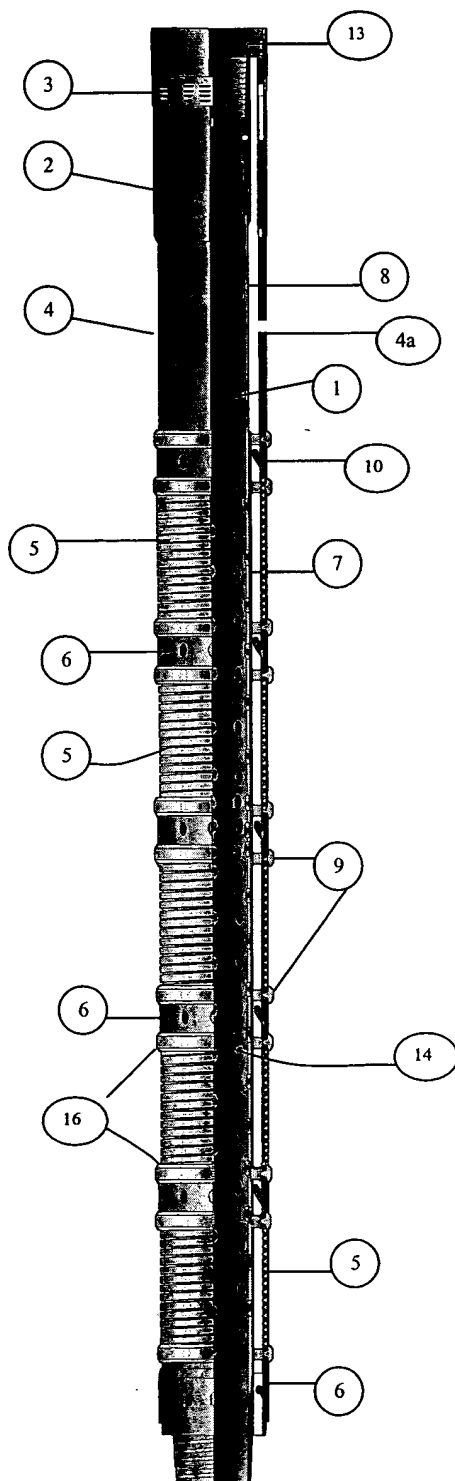


Fig. 2A

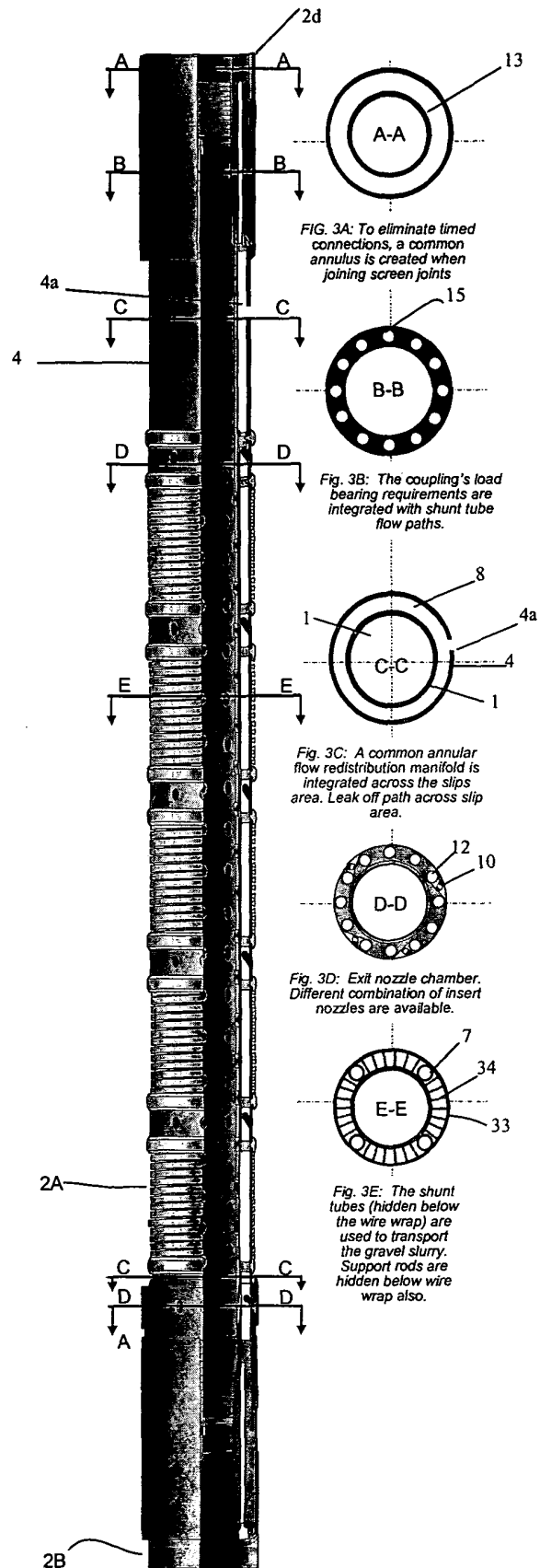


FIG. 3A: To eliminate timed connections, a common annulus is created when joining screen joints

Fig. 3B: The coupling's load bearing requirements are integrated with shunt tube flow paths.

Fig. 3C: A common annular flow redistribution manifold is integrated across the slips area. Leak off path across slip area.

Fig. 3D: Exit nozzle chamber. Different combination of insert nozzles are available.

Fig. 3E: The shunt tubes (hidden below the wire wrap) are used to transport the gravel slurry. Support rods are hidden below wire wrap also.

Fig. 3

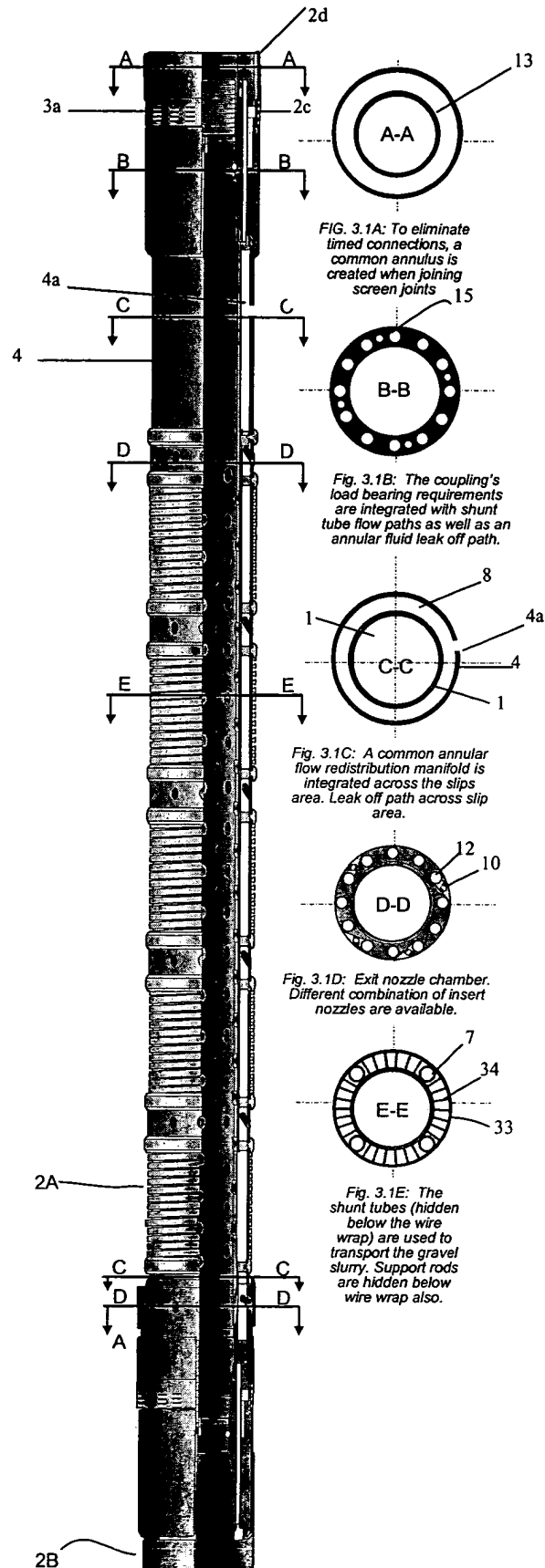


Fig. 3.1

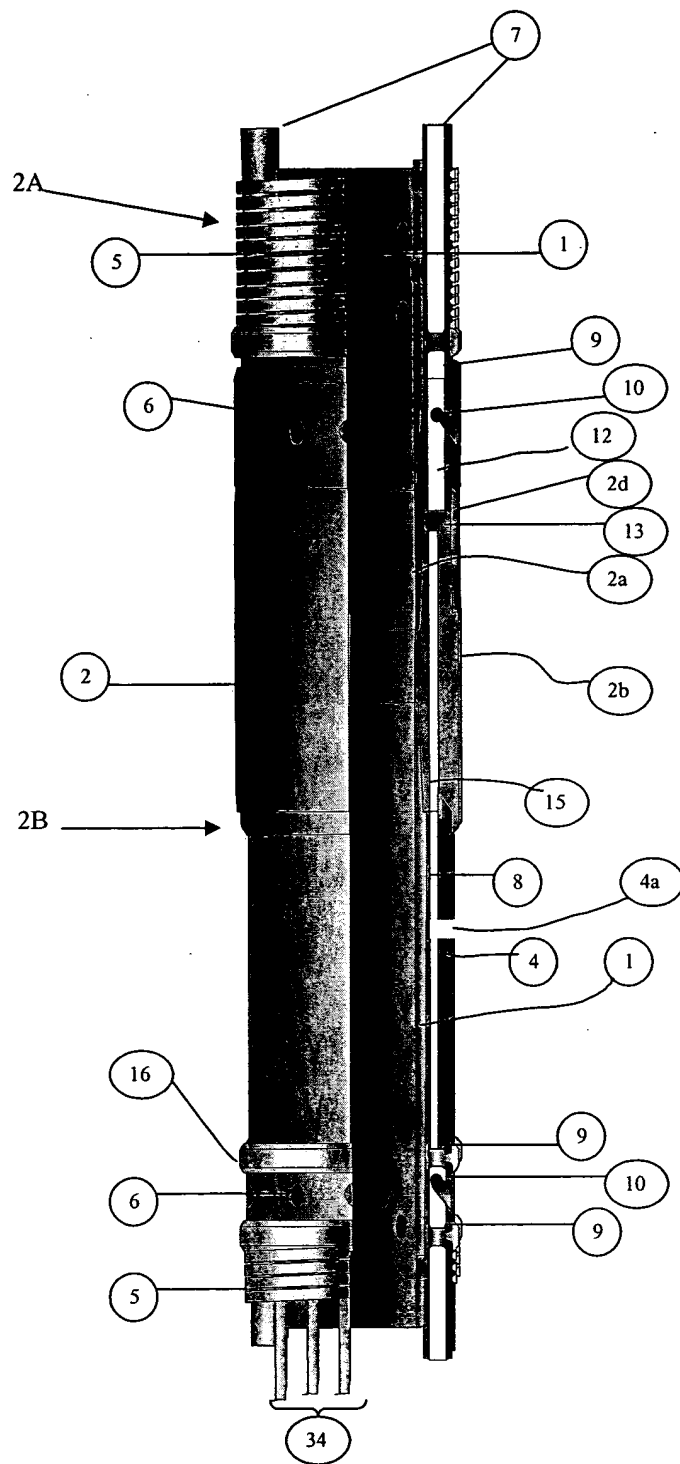


Fig. 4

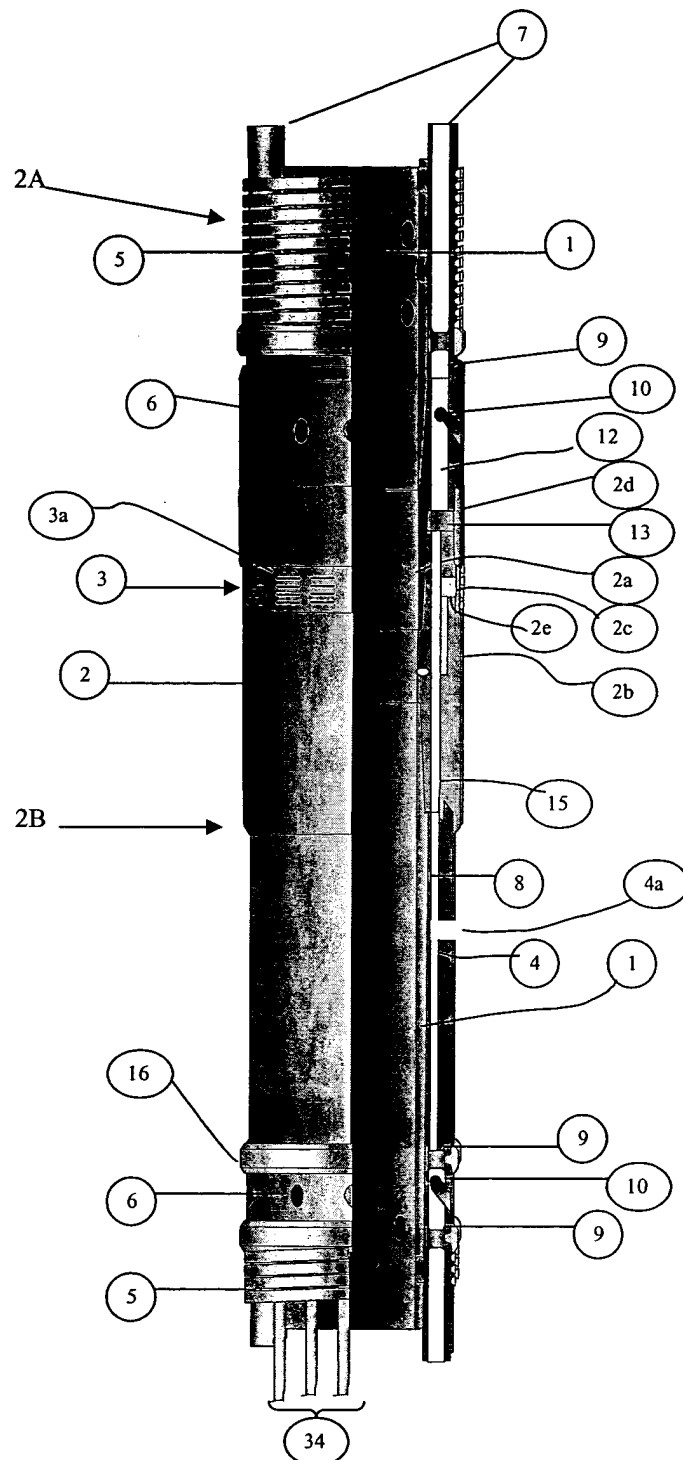


Fig. 4A



# Gravel Pack Position

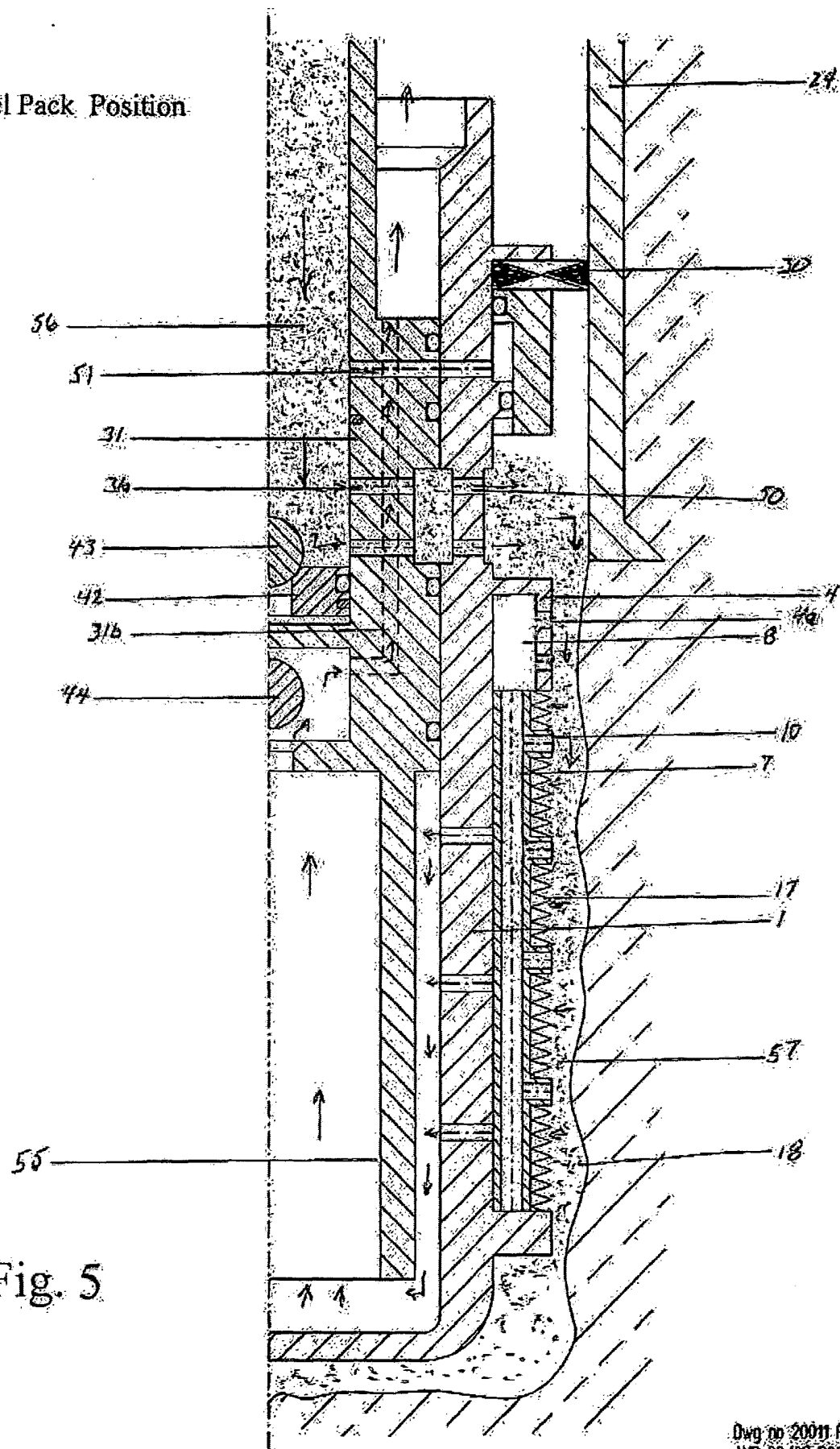


Fig. 5

Gravel Pack Position  
With Sand Bridge

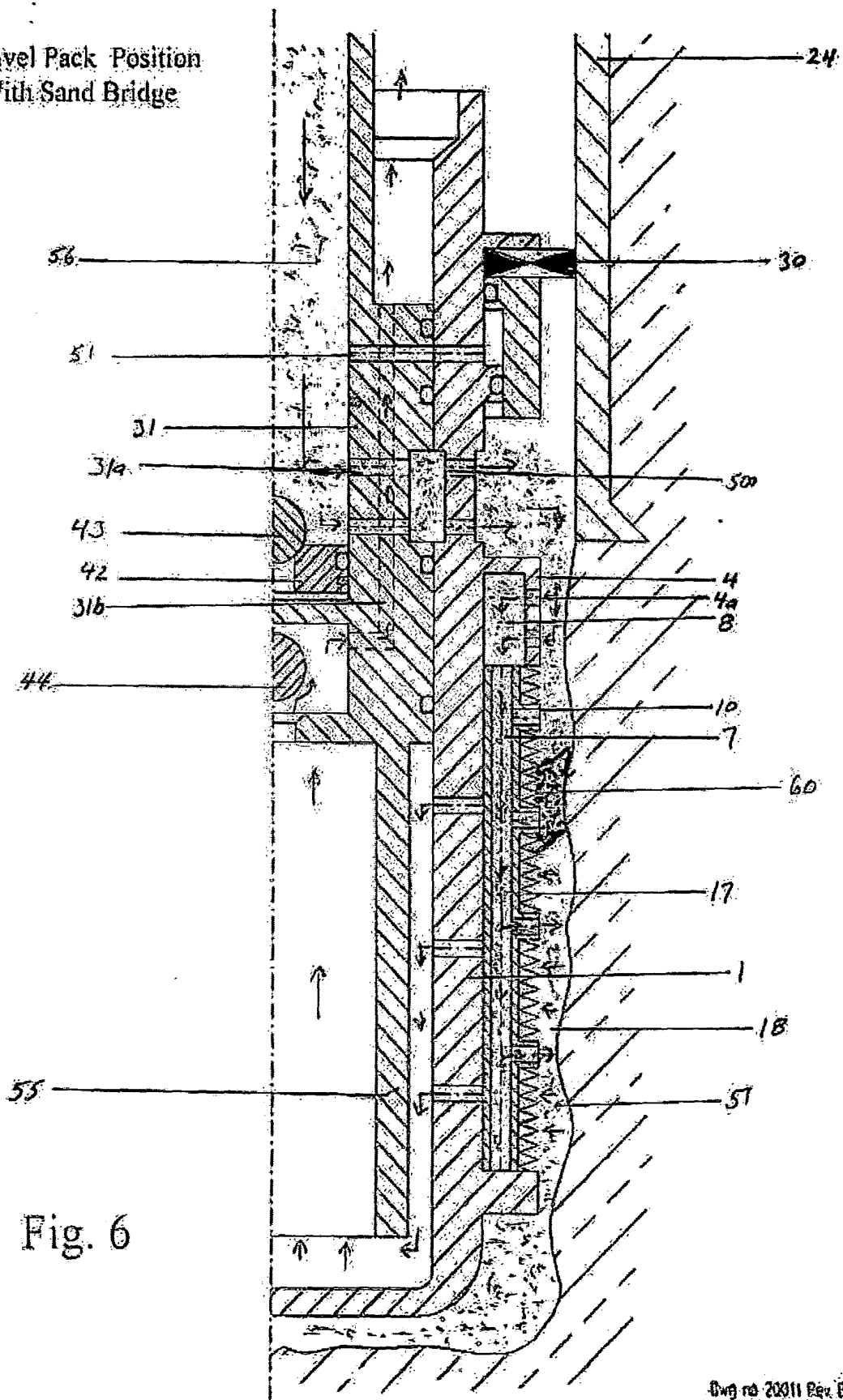


Fig. 6